

#6



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## RAW SEQUENCE LISTING

DATE: 07/18/2002

PATENT APPLICATION: US/09/998,042

TIME: 10:26:35

Input Set : A:\66364.txt

Output Set: N:\CRF3\07182002\I998042.raw

3 <110> APPLICANT: YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW  
5 <120> TITLE OF INVENTION: ACETYLCHOLINESTERASE-DERIVED PEPTIDE AND USES THEREOF  
7 <130> FILE REFERENCE: 7811/WO/99  
C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/998,042  
C--> 10 <141> CURRENT FILING DATE: 2002-07-02  
12 <160> NUMBER OF SEQ ID NOS: 9  
14 <170> SOFTWARE: PatentIn Ver. 2.1  
16 <210> SEQ ID NO: 1  
17 <211> LENGTH: 26  
18 <212> TYPE: PRT  
19 <213> ORGANISM: HOMO SAPIENS  
21 <400> SEQUENCE: 1  
22 Gly Met Gln Gly Pro Ala Gly Ser Gly Trp Glu Glu Gly Ser Gly Ser  
23 1 5 10 15  
25 Pro Pro Gly Val Thr Pro Leu Phe Ser Pro  
26 20 25  
29 <210> SEQ ID NO: 2  
30 <211> LENGTH: 40  
31 <212> TYPE: PRT  
32 <213> ORGANISM: HOMO SAPIENCE  
34 <400> SEQUENCE: 2  
35 Asp Thr Leu Asp Glu Ala Glu Arg Gln Trp Lys Ala Glu Phe His Arg  
36 1 5 10 15  
38 Trp Ser Ser Tyr Met Val His Trp Lys Asn Gln Phe Asp His Tyr Ser  
39 20 25 30  
41 Lys Gln Asp Arg Cys Ser Asp Leu  
42 35 40  
45 <210> SEQ ID NO: 3  
46 <211> LENGTH: 27  
47 <212> TYPE: PRT  
48 <213> ORGANISM: HOMO SAPIENS  
50 <400> SEQUENCE: 3  
51 Phe His Arg Trp Ser Ser Tyr Met Val His Trp Lys Asn Gln Phe Asp  
52 1 5 10 15  
54 His Tyr Ser Lys Gln Asp Arg Cys Ser Asp Leu  
55 20 25  
58 <210> SEQ ID NO: 4  
59 <211> LENGTH: 42  
60 <212> TYPE: DNA  
61 <213> ORGANISM: Artificial Sequence  
63 <220> FEATURE:  
64 <223> OTHER INFORMATION: Description of Artificial Sequence: 5' primer for  
65 intron 4 of human acetylcholinesterase

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67 <400> SEQUENCE: 4
68 gctggatcca tgcaggggcg aggtatgcag gggccagcgg gc 42
70 <210> SEQ ID NO: 5
71 <211> LENGTH: 30
72 <212> TYPE: DNA
73 <213> ORGANISM: Artificial Sequence
75 <220> FEATURE:
76 <223> OTHER INFORMATION: Description of Artificial Sequence:3' primer for
77 intron 4 of human acetylcholinesterase
79 <400> SEQUENCE: 5
80 tataagcttc tagggggaga agagaggggt 30
82 <210> SEQ ID NO: 6
83 <211> LENGTH: 37
84 <212> TYPE: PRT
85 <213> ORGANISM: homo sapiens
87 <400> SEQUENCE: 6
88 Asn Arg Phe Leu Pro Lys Leu Leu Ser Ala Thr Gly Met Gln Gly Pro
89 1 5 10 15
91 Ala Gly Ser Gly Trp Glu Glu Gly Ser Gly Ser Pro Pro Gly Val Thr
92 20 25 30
94 Pro Leu Phe Ser Pro
95 35
98 <210> SEQ ID NO: 7
99 <211> LENGTH: 53
100 <212> TYPE: PRT
101 <213> ORGANISM: Artificial Sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Description of Artificial Sequence:arp-two hybrid
105 screen peptide
107 <400> SEQUENCE: 7
108 Pro Leu Glu Val Arg Arg Gly Leu Arg Ala Gln Ala Cys Ala Phe Trp
109 1 5 10 15
111 Asn Arg Phe Leu Pro Lys Leu Leu Ser Ala Thr Gly Met Gln Gly Pro
112 20 25 30
114 Ala Gly Ser Gly Trp Glu Glu Gly Ser Gly Ser Pro Pro Gly Val Thr
115 35 40 45
117 Pro Leu Phe Ser Pro
118 50
121 <210> SEQ ID NO: 8
122 <211> LENGTH: 67
123 <212> TYPE: PRT
124 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: Description of Artificial Sequence:ASP - peptide
128 for two-hybrid screen
130 <400> SEQUENCE: 8
131 Pro Leu Glu Val Arg Arg Gly Leu Arg Ala Gln Ala Cys Ala Phe Trp
132 1 5 10 15
134 Asn Arg Phe Leu Pro Lys Leu Leu Ser Ala Thr Asp Thr Leu Asp Glu

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135          20          25          30
137 Ala Glu Arg Gln Trp Lys Ala Glu Phe His Arg Trp Ser Ser Tyr Met
138          35          40          45
140 Val His Trp Lys Asn Gln Phe Asp His Tyr Ser Lys Gln Asp Arg Cys
141          50          55          60
143 Ser Asp Leu
144 65
147 <210> SEQ ID NO: 9
148 <211> LENGTH: 317
149 <212> TYPE: PRT
150 <213> ORGANISM: Artificial Sequence
152 <220> FEATURE:
153 <223> OTHER INFORMATION: Description of Artificial Sequence:homology of ARP
154 and RACK
156 <400> SEQUENCE: 9
157 Met Thr Glu Gln Met Thr Leu Arg Gly Thr Leu Lys Gly His Asn Gly
158 1 5 10 15
160 Trp Val Thr Gln Ile Ala Thr Thr Pro Gln Phe Pro Asp Met Ile Leu
161 20 25 30
163 Ser Ala Ser Arg Asp Lys Thr Ile Ile Met Trp Lys Leu Thr Arg Asp
164 35 40 45
166 Glu Thr Asn Tyr Gly Ile Pro Gln Arg Ala Leu Arg Gly His Ser His
167 50 55 60
169 Phe Val Ser Asp Val Val Ile Ser Ser Asp Gly Gln Phe Ala Leu Ser
170 65 70 75 80
172 Gly Ser Trp Asp Gly Thr Leu Arg Leu Trp Asp Leu Thr Thr Gly Thr
173 85 90 95
175 Thr Thr Arg Arg Phe Val Gly His Thr Lys Asp Val Leu Ser Val Ala
176 100 105 110
178 Phe Ser Ser Asp Asn Arg Gln Ile Val Ser Gly Ser Arg Asp Lys Thr
179 115 120 125
181 Ile Lys Leu Trp Asn Thr Leu Gly Val Cys Lys Tyr Thr Val Gln Asp
182 130 135 140
184 Glu Ser His Ser Glu Trp Val Ser Cys Val Arg Phe Ser Pro Asn Ser
185 145 150 155 160
187 Ser Asn Pro Ile Ile Val Ser Cys Gly Trp Asp Lys Leu Val Lys Val
188 165 170 175
190 Trp Asn Leu Ala Asn Cys Lys Leu Lys Thr Asn His Ile Gly His Thr
191 180 185 190
193 Gly Tyr Leu Asn Thr Val Thr Val Ser Pro Asp Gly Ser Leu Cys Ala
194 195 200 205
196 Ser Gly Gly Lys Asp Gly Gln Ala Met Leu Trp Asp Leu Asn Glu Gly
197 210 215 220
199 Lys His Leu Tyr Thr Leu Asp Gly Gly Asp Ile Ile Asn Ala Leu Cys
200 225 230 235 240
202 Phe Ser Pro Asn Arg Tyr Trp Leu Cys Ala Ala Thr Gly Pro Ser Ile
203 245 250 255
205 Lys Ile Trp Asp Leu Glu Gly Lys Ile Met Val Asp Glu Leu Lys Gln
206 260 265 270

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 208 | Glu | Val | Ile | Ser | Thr | Ser | Ser | Lys | Ala | Glu | Pro | Pro | Gln | Cys | Thr | Ser |
| 209 |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| 211 | Leu | Ala | Trp | Ser | Ala | Asp | Gly | Gln | Thr | Leu | Phe | Ala | Gly | Tyr | Thr | Asp |
| 212 |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| 214 | Asn | Leu | Val | Arg | Val | Trp | Gln | Val | Thr | Ile | Gly | Thr | Arg |     |     |     |
| 215 | 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     |     |

VERIFICATION SUMMARY

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Input Set : A:\66364.txt

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L:9 M:270 C: Current Application Number differs, Replaced Current Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date